

Appln. No. 09/905,716
Amendment Date: December 4, 2005
Reply to Office Action of November 9, 2005
Page 2

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A receiver for receiving and Efficiently separating a composite 3-G wireless communications signal into [its] constituent base-band components, wherein said receiver combines multiple processing tasks of a [conventional] 3-G receiver into a single [entity] device, said single [entity] performs the processing required for multiple channels [in a single device], comprising,

a resampling polyphase filter bank [wherein] for performing tasks of spectral translation, bandwidth reduction and of interpolation to change sample rate by a rational ratio [are embedded], and

a single polyphase filter coupled to operate[s] in a resampling mode so that the sample rate input and the sample rate output [sample rates] are different.

Appln. No. 09/905,716
Amendment Date: December 4, 2005
Reply to Office Action of November 9, 2005
Page 3

2. (Cancelled)

3 (Currently Amended) A receiver for receiving and
Efficiently separating a composite 3-G wireless communications
signal into [its] constituent base-band components, wherein said
receiver combines multiple processing tasks of a [conventional]
3-G receiver into a single [entity] device, said single [entity]
device performs the processing required for multiple channels[in
a single device], comprising,

a filter for changing [the] a sample rate therewithin to
induce spectral aliasing of multiple spectral centers, and
[wherein]

a resampling mode for intentional aliasing [is invoked as a
replacement for the input down conversion of each channel in a
conventional receiver structure].

4. (Cancelled)

5. (Cancelled)

6-8. (Cancelled)

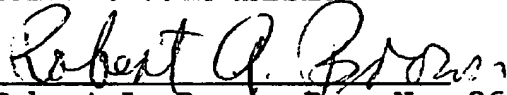
Appln. No. 09/905,716
Amendment Date: December 4, 2005
Reply to Office Action of November 9, 2005
Page 5

Applicant respectfully contends the present amendments place this case in proper order for allowance. Accordingly, the Examiner's reconsideration and early allowance are respectfully solicited.

Applicant's Attorney may be reached at 847/272-3182, or 847/272-3176, or FAX 847/272-5424, if the need arises for any further discussion in connection with the matters at hand.

Respectfully submitted,

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